

## EAST Search History

| Ref # | Hits | Search Query  | DBs                                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| S1    | 7083 | ((gold or metal or metallic) near (sphere or microsphere or particle)) and binding  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2007/03/15 00:04 |
| S2    | 5734 | ((gold or metal or metallic) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/07 18:33 |
| S3    | 5774 | ((gold or metal or metallic) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or polymer) and (magnetic or ferroelectric)                 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/07 18:36 |
| S4    | 5786 | ((gold or metal or metallic) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or polymer or antibody) and (magnetic or ferroelectric)     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/07 18:36 |
| S5    | 1822 | ((gold or silver) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or polymer or antibody) and (magnetic or ferroelectric)                | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/07 18:37 |
| S6    | 2    | "20020045276"   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/07 18:38 |
| S7    | 347  | ((gold or silver) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or polymer or antibody) and (magnetic or ferroelectric) not @ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/07 18:54 |
| S8    | 159  | ((gold or silver) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or antibody) and (magnetic or ferroelectric) not @ay>"1996"            | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/09 13:26 |
| S9    | 2    | "20030157731"   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR               | ON      | 2004/06/08 16:57 |

## EAST Search History

|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S10 | 2    | "6586193"   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 11:26 |
| S11 | 2    | "6586193" and particle  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 11:27 |
| S12 | 101  | ((gold or silver) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or antibody) and (magnetic or ferroelectric) and density not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 17:27 |
| S13 | 3    | ((gold or silver) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or antibody) and (magnetic or ferroelectric) and (antibiotin or antidigoxinin or antiluorescein) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 17:07 |
| S14 | 3    | ((gold or silver) near (sphere or microsphere or particle)) and (magnetic or ferroelectric) and (antibiotin or antidigoxinin or antiluorescein) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 17:08 |
| S15 | 86   | ((gold or silver) near (sphere or microsphere or particle)) and (protein or nucleic or peptide or carbohydrate or antibody) and (magnetic or ferroelectric) and (fluorescein or biotin or digoxinin) not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 17:31 |
| S16 | 15   | ((gold or silver) near (sphere or microsphere or particle or bead)) and (protein or nucleic or peptide or carbohydrate or antibody) and (magnetic or ferroelectric) and (antiluorescein or anti-fluorescein or antibiotin or anti-biotin or antidigoixnin or anti-digoxinin) not @ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/10 15:19 |
| S17 | 1132 | ((gold or silver) near (sphere or microsphere or particle or bead)) and coating and density not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 18:04 |

## EAST Search History

|     |      |  |  |    |    |                  |
|-----|------|--|--|----|----|------------------|
| S18 | 140  | ((gold or silver) near (sphere or microsphere or particle or bead)) and coating and (low near density) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 18:05 |
| S19 | 59   | "4777145"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 18:07 |
| S20 | 39   | (particle or microparticle or bead or microbead or nanobead or nanoparticle or microsphere or nanosphere) and (gold near coating) and antibody not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/09 18:08 |
| S21 | 15   | ((gold or silver) near (sphere or microsphere or particle or bead)) and (magnetic or ferroelectric) and (antifluorescein or anti-fluorescein or antibiotin or anti-biotin or antidigoixnin or anti-digoxinin) not @ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/10 15:19 |
| S22 | 41   | (gold near (colloid or particle or sphere or bead or microsphere or microbead)) and (silver near coating)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/11 16:01 |
| S23 | 12   | (gold near (colloid or particle or sphere or bead or microsphere or microbead)) and (silver near coating) and antibody   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/11 15:43 |
| S24 | 21   | "5567628"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2004/06/11 16:01 |
| S27 | 18   | "5137827"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2005/04/08 16:27 |
| S28 | 36   | (gold near (particle microsphere particulate)) and (light near scatter) not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2005/04/08 16:44 |
| S35 | 25   | "5567628"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/06/23 16:06 |
| S36 | 2115 | gold with particle and (variation uniform) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/06/21 20:55 |
| S37 | 86   | gold with particle and coating and scatter and (variation uniform) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/06/22 19:10 |

## EAST Search History

|     |     |   |                            |    |    |                  |
|-----|-----|---|----------------------------|----|----|------------------|
| S38 | 20  | gold with particle and coating and scatter and ((variation uniform) with size) not @ay>"1996"     | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/22 19:14 |
| S39 | 0   | gold with nanoparticle and coating and scatter and ((variation uniform) with size) not @ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/22 19:14 |
| S40 | 2   | gold and nanoparticle and coating and scatter and ((variation uniform) with size) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/22 19:17 |
| S41 | 21  | "5137827"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/22 19:17 |
| S42 | 30  | "4929400"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 16:22 |
| S43 | 137 | "4267234"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 16:28 |
| S44 | 176 | uniform with gold with particles  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 16:24 |
| S45 | 52  | uniform with gold with particles not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 16:27 |
| S46 | 52  | "4339337"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 16:27 |
| S47 | 101 | "4267234" AND coating   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 16:28 |
| S48 | 36  | "4267234" AND (metal with coating)  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 17:33 |
| S49 | 198 | uniform with nanoparticle AND ((gold metal) with coating)   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 17:33 |
| S50 | 2   | uniform with nanoparticle AND ((gold metal) with coating) not @ay>"1996"                          | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/06/23 17:34 |
| S51 | 3   | uniform with diameter and nanoparticle AND ((gold metal) with coating) not @ay>"1996"             | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 14:38 |
| S52 | 16  | "5882496"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/05 12:48 |

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|     |      |   |                            |    |    |                  |
|-----|------|---|----------------------------|----|----|------------------|
| S53 | 26   | "5393401"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/05 12:49 |
| S54 | 1063 | "5605662"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/05 12:49 |
| S55 | 1    | "5605662".pn.   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/05 12:49 |
| S56 | 2    | uniform with nanoparticle AND ((gold metal) with coating) not @ay>"1996"              | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 13:43 |
| S57 | 12   | uniform with nanoparticles not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 14:37 |
| S58 | 0    | uniform with quantum with dot and binding not @ay>"1996"                              | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 14:19 |
| S59 | 9    | quantum with dot and binding not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 14:19 |
| S60 | 2    | uniform with nanocrystal and binding not @ay>"1996"                                   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 14:37 |
| S61 | 0    | uniform with diameter and nanocrystal AND ((gold metal) with coating) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 14:38 |
| S62 | 3    | uniform with diameter and nanoparticle AND ((gold metal) with coating) not @ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 14:38 |
| S63 | 5    | uniform and nanocrystal AND ((gold metal) with coating) not @ay>"1996"                | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 19:04 |
| S64 | 4    | variation and nanocrystal AND ((gold metal) with coating) not @ay>"1996"              | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 19:04 |
| S65 | 25   | variation and nanoparticle AND ((gold metal) with coating) not @ay>"1996"             | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/06 19:04 |
| S66 | 12   | uniform with nanoparticle not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/13 11:19 |
| S67 | 10   | nanoparticle and coating and gold and scatter not @ay>"1996"                          | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2006/07/14 13:23 |

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|     |       |   |  |    |    |                  |
|-----|-------|---|--|----|----|------------------|
| S69 | 30    | "4929400"   | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/07/14 12:27 |
| S70 | 12    | "4929400" and coat  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/07/14 12:28 |
| S71 | 3     | "4929400" and coat and (gold au)  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/07/14 12:28 |
| S72 | 0     | nanosphere and coating and gold<br>and scatter not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/07/14 13:23 |
| S73 | 4     | uniform with microsphere and<br>coating and gold and scatter not<br>@ay>"1996"                                      | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/07/14 13:49 |
| S74 | 2     | monodisperse with microsphere<br>and coating with gold and scatter<br>not @ay>"1996"                                | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/07/14 13:49 |
| S75 | 10    | monodisperse with microsphere<br>and coating same gold not<br>@ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2006/07/14 13:50 |
| S76 | 0     | quantum with dot and nanocoating<br>not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2007/03/08 18:40 |
| S77 | 62    | quantum with dot and coating not<br>@ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2007/03/08 18:41 |
| S78 | 0     | quantum with dot and coating and<br>label not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2007/03/08 18:41 |
| S79 | 23    | ((gold or metal or metallic) near<br>(sphere or microsphere or<br>particle)) and nanocoating                        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:05 |
| S80 | 0     | ((gold or metal or metallic) near<br>(sphere or microsphere or<br>particle)) and nanocoating not<br>@ay>"1996"      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:05 |
| S81 | 0     | ((gold or metal or metallic) near<br>(sphere or microsphere or particle<br>bead)) and nanocoating not<br>@ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:05 |
| S82 | 31677 | ((gold or metal or metallic) near<br>(sphere or microsphere or<br>particle)) and coating                            | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:05 |

## EAST Search History

|     |       |  |  |    |    |                  |
|-----|-------|--|--|----|----|------------------|
| S83 | 11466 | ((gold or metal or metallic) near (sphere or microsphere or particle)) and coating not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:06 |
| S84 | 15473 | ((gold or metal or metallic) with coating same (sphere or microsphere or particle)) and coating not @ay>"1996"                                   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:06 |
| S85 | 16268 | ((gold or metal or metallic) with coating same (sphere or microsphere or particle bead)) not @ay>"1996"  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:06 |
| S86 | 0     | ((gold or metal or metallic) with coating same (sphere or microsphere or particle bead)) and quantum with dot not @ay>"1996"                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:06 |
| S87 | 237   | ((gold or metal or metallic) with coating same (sphere or microsphere or particle bead)) and fluorescence not @ay>"1996"                         | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:06 |
| S88 | 3023  | ((gold or metal or metallic) with coating same (sphere or microsphere or particle bead)) and color not @ay>"1996"                                | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 00:07 |
| S89 | 537   | ((gold or metal or metallic) with coating same (sphere or microsphere or particle bead)) same color not @ay>"1996"                               | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 11:39 |
| S90 | 243   | ((gold or metal or metallic) with coating same (sphere or microsphere or particle bead)) and label not @ay>"1996"                                | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 12:37 |
| S91 | 324   | ((gold or metal or metallic) with (coating coated) with (sphere or microsphere or particle bead)) and label not @ay>"1996"                       | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 12:50 |
| S92 | 163   | ((gold or metal or metallic) with (coating coated) with (sphere or microsphere or particle bead)) and label and (thickness thick) not @ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT | OR | ON | 2007/03/15 12:51 |
| S93 | 14    | quantum with dot and metal with coating not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2007/03/15 14:42 |
| S94 | 25    | "4621024"  | US-PGPUB;<br>USPAT;<br>EPO             | OR | ON | 2007/03/15 15:23 |

## EAST Search History

|     |    |   |                            |    |    |                  |
|-----|----|---|----------------------------|----|----|------------------|
| S95 | 2  | quantum with dot and gold with coating not @ay>"1996" | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2007/03/15 14:42 |
| S96 | 7  | metal with coated with nanoparticles not @ay>"1996"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2007/03/15 15:41 |
| S97 | 1  | "9106036" not @ay>"1996"                              | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2007/03/15 15:41 |
| S98 | 30 | "4624923"   | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2007/12/20 13:52 |